Job Description.

HORIBA MIRA is a global provider of automotive engineering, research and test services, with 75 years of experience in developing some of the world's most iconic vehicles.
Working in collaboration with vehicle manufacturers and suppliers around the world, we provide comprehensive support ranging from technology development and individual product tests through to full-vehicle design, development and build programmes.

Whilst traditionally known for our vehicle test services – including over 40 major facilities and 100km of Proving Ground – HORIBA MIRA is so much more than this. Over the last ten years, we have invested heavily in the evolution of our engineering capability and in the development of MIRA Technology Park, Europe's leading mobility R&D location for developing the latest automotive technology.

The unique combination of engineering expertise, advanced testing facilities and prime location of MIRA Technology Park in the heart of the UK automotive industry, enables customers to develop and validate their technology, or vehicle, in one place.

Title of Job:	Electrical Project Engineer			
Department:	D444			
Grade:	4P			
Date Required:	-			
Salary Range:	-			
Number Required:	-			
Location:	Nuneaton, UK.			
Contract Type:	**Permanent:**	X	**Contractor:**	
Responsible To:	Team Leader – Software & Electrical Engineering			
Subordinates:	None			

Main Purpose of Job
• Technical delivery of a range of projects involving Automotive systems, Hybrid electric vehicle systems and related applications, with an electrical focus. • To provide electrical design, development, integration and test solutions across a wide range of automotive and xEV related products / systems.

Key Functions
Engineering Functions: • Contribute to a multi-disciplinary team to support the delivery of complex projects using a V-cycle engineering approach and following a gated engineering development process where appropriate. • Support system architecture definition and requirements capture activities. • Detailed design of automotive systems, hybrid electric vehicle systems, HV battery packs and control systems. • Design and development of modules and harness systems. • Design to recognised standards and best practices for safety, EMC, reliability and maintainability. • Use of the required appropriate design tools - i.e. Arcadia, EDS tools, Visio, DOORS and Matlab. • Sensor integration with emphasis on transducer interfacing, i.e. temperature, pressure, position etc. • Communications interface development including vehicle networks using CAN / LIN / FlexRay protocols. • Vehicle / application integration for electrical and electronic systems, including ADAS, Chassis control, Body control systems and xEV control systems. • Creation, execution and reporting of robust DVP's against systems requirements using suitable analysis and measurement tools. • Performing 8D on analysis on items ranging in maturity from prototype level to post-production. **Other Functions:** • Assist in the development of proposals and support discussions with customers in order to generate new projects.

Essential Qualifications	Preferred Qualifications
• Relevant engineering degree (e.g. Electrical / Electronic engineering or similar). Significant relevant professional experience will be taken into consideration	• Higher Degree or post-graduate qualification in a related Engineering discipline.

Essential Experience	Preferred Experience
Electrical / Electronics engineer ideally with a minimum of 4 years' experience in the following areas: • Electrical development and integration of automotive and commercial vehicle systems. • System architecture development and requirements elicitation. • Detailed electrical design, integration and test. • IT Literate – Microsoft Office with a strong ability to learn new software tools.	• Electrical and electronic development of hybrid electric vehicle systems. • Knowledge of Six Sigma and 8D techniques and processes. • Working knowledge of systems and safety Engineering. • Working knowledge of automotive software development. • Schematic Capture. • Def Stan 61-05.

What is the candidate likely to be doing now?
• A similar role within a Tier 1 or Vehicle manufacturer

Other information
• The candidate will become a member of a development team with individual and team-level responsibilities, requiring the ability to work alone and also collaboratively as part of the team. • Flexible and adaptable with good interpersonal skills – a consensus-builder not confrontational. • Must be a self-starter and able to execute designated tasks accurately and within timing and budgetary constraints. • Be capable of delivering a high standard of technical writing. • Have well-developed analytical skills – rigorous but pragmatic. • Demonstrate creative thinking and be open to new ideas • Work well under pressure with a positive, can-do attitude • The candidate will be required to work on defence projects and must be eligible for security clearance • Have a full UK driving license • Be prepared to travel in the UK and potentially overseas for short term visits